



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent Application )

ITO et al. )

Application 09/879,797 ) Art Unit 1634

Filed: June 11, 2001 ) Examiner

For: BIOCHIP AND METHOD FOR  
PRODUCING THE SAME )

Attorney Docket No. HIRA.0072 )

Honorable Assistant Commissioner  
for Patents  
Washington, D.C. 20231

COVER LETTER

Sir:

[ ] The fee for submission of additional claims is calculated as shown below:

FOR	TOTAL WITH NEW CLAIMS ADDED	TOTAL CURRENTLY ON FILE	CLAIMS PAID	RATE	CALCULATION
Total Claims	9	9	-XX (Over 20)	x \$18	0
Independent Claims	3	2	-XX (Over 3)	x \$84	0
MULTIPLE DEPENDENT CLAIM(S)				+ \$280	0
REDUCTION FOR FILING BY SMALL ENTITY (note 37 C.F.R. §§ 1.9, 1.27, 1.28). IF APPLICABLE, VERIFIED STATEMENT MUST BE ATTACHED				x ½	
				TOTAL	0.00

In addition, the below-identified communications are submitted in the above-captioned application or proceeding:

- Response to Office Action  
(with Claim Amendments)  
 Information Disclosure Statement  
 Preliminary Amendment  
 Substitute Specification  
 Other \_\_\_\_\_

- Petition for Extension of Time  
 Terminal Disclaimer  
 Letter to Draftsperson  
 Assignment  
 Petition under \_\_\_\_\_

- Please charge my **Deposit Account Number** \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the fees for \_\_\_\_\_  
A duplicate copy of this paper is enclosed.
- A check in the amount of **\$0.00** to cover the fee is enclosed.
- The Commissioner is hereby authorized to charge any additional fees associated with this communication,  
including patent application filing fees and processing fees under 37 C.F.R. § 1.16 and 1.17, or credit any  
overpayment to **Deposit Account Number 08-1480**.

Respectfully submitted,

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**January 28, 2003**



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Attorney Docket No. HIRA.0072 )

) Art Unit 1634

) Examiner  
Forman, Betty J

Honorable Assistant Commissioner  
for Patents  
Washington, D.C. 20231

RESPONSE AND AMENDMENT UNDER 37 C.F.R. §1.111

Sir:

This is in response to the office action dated October 28, 2002, and the interviews with the Examiner dated January 23 and 27, 2003, in the above identified application, the period for response will expire on January 28, 2003. Please amend the above identified application with the replacement paragraphs/sections/claims as follows:

IN THE SPECIFICATION:

Please replace the paragraph [0033] of page 10 (continuing to page 11) of the Disclosure currently on file with the following paragraph:

Figures 6A to 6D are schematic diagrams showing shapes of a tip (i.e., a portion where probes are to be contacted) of a pin 5 according to the invention. Figure 6A shows a pin 5a with a concave tip. A pin 5b shown in Figure 6B has a concave tip with a cross-shaped groove. The concave shape of the tip of the pin allows the probe solution to be carried by surface tension by simply dipping the pin in the solution. The depth of the concave is optional. The amount of the DNA carried with the pin 5a or 5b with the concave tip is about 10 times or more the amount carried with a conventional pin with a flat tip. A pin 5c shown in Figure 6C has a flat tip with a cross-shaped groove. The amount of the DNA carried with this

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